

Rosita Rodriguez Proteau, Ph.D.

Associate Professor of Pharmaceutics
College of Pharmacy

Adjunct Professor
Environmental and Molecular Toxicology

Director, NIEHS-T-35 Short-Term Research Training for Minority Students
Oregon State University

Research Interests

My research interests include the following three areas of study:

1. *Drug Metabolism by Intestinal Flavin Monooxygenases (FMOs)*: The characterization of intestinal FMOs in human duodenum, jejunum, ileum, and colon and in continuous cell lines from intestinal and colonic origin is being investigated.
2. *Drug-Dietary Flavonoid Intestinal Absorption Interaction*: Investigating the exposure of humans to dietary flavonoids, which can influence drug absorption by altering the P-glycoprotein (Pgp)-dependent or Pgp-independent transport mechanisms (drug-dietary interactions). Also, because the flavonoids generally occur in plants as the glycosylated derivatives, studies will also be conducted with glycosylated flavonoids on Pgp-dependent and Pgp-independent transport.
3. *Genetic Determinants of Intestinal Drug Absorption*: Because the expression of variant alleles associated with drug absorption and metabolism is often correlated to ethnicity, studies evaluating the expression of variant alleles associated with drug absorption and metabolism on intestinal transport and metabolic activity are being investigated, as well as gender differences on transport and metabolism.

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Last updated 9/16/04